

## ABSTRACT OF THE DISCLOSURE

A device and method for non-destructively inactivating microorganisms, and more particularly for non-destructively inactivating microorganisms by subjecting a microdispersion of biological or other pharmaceutical material to short-duration, high-intensity pulses of an energetic emission is provided. The microdispersion treatment device comprises an emitter; a power supply coupled to the emitter; a flow chamber designed to produce a microdispersion of the material across an exposure region such that the material is substantially non-destructively exposed to an emission emitted from the emitter.

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